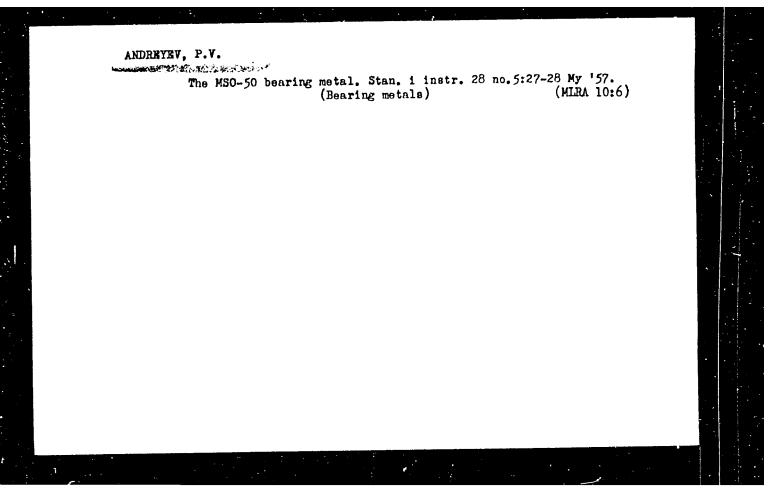
ANDREYEV, P. V.

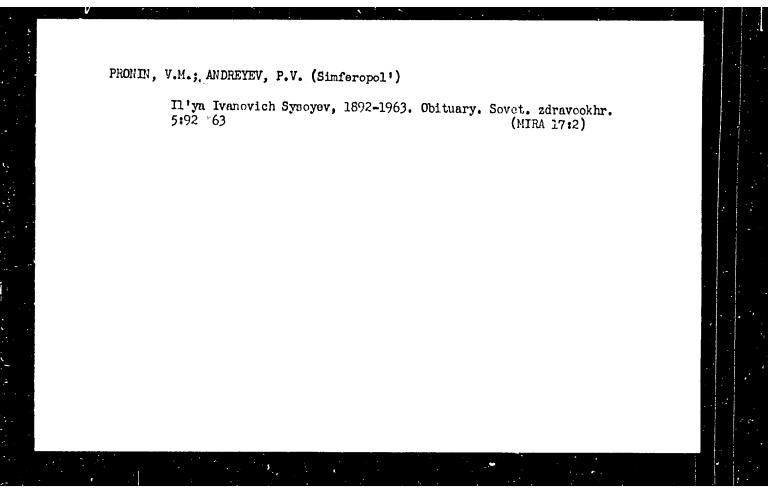
Min Higher Education USSR. Leningrad Agricultural Inst. Chair of "Machine Repair."

ANDREYEV, P. V. - "Repairing the bearings of the crankshaft of automobile and tractor engines by using reticular bushings." Min Higher Education USSR. Leningrad Agricultural Inst. Chair of "Machine Repair." Leningrad, 1956.

(Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis' No. 13, 1956.



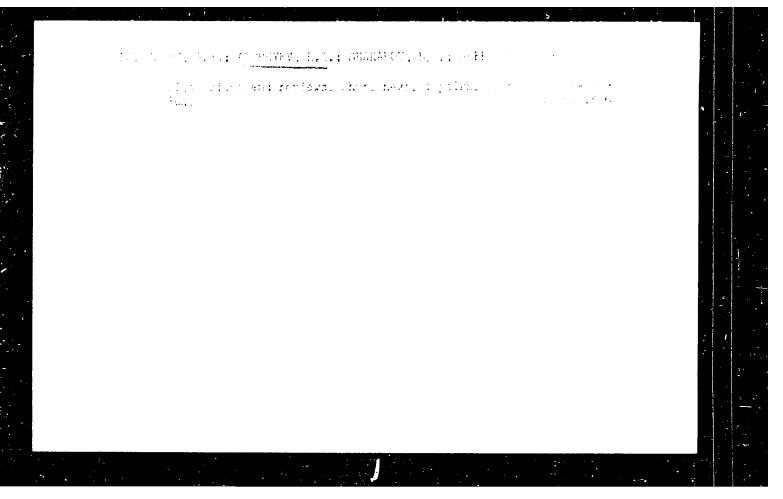


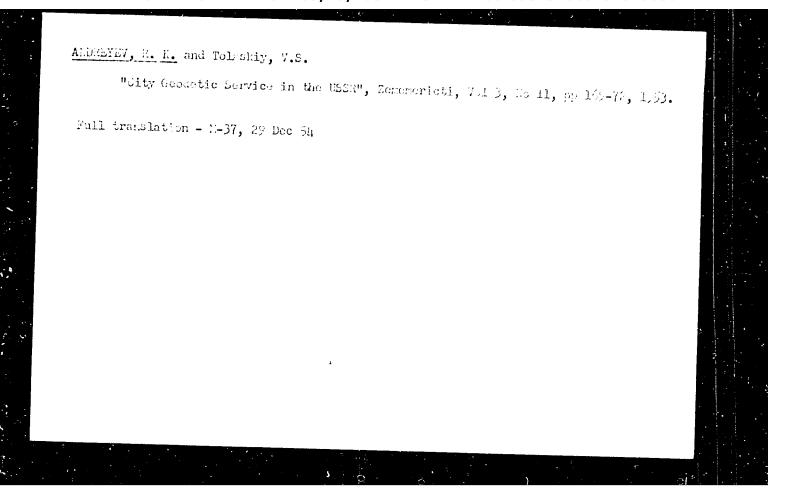
ANDREYEV, P.V., assistent (Simferopol')

From the unpublished letters of F.F.Erisman to N.P.Suslova.
Sov.zdrav. 22 no.4164-67 '63. (MIRA 16:4)

1. Iz kafedry organizatsii zdravookhraneniya i istorii medithiny
(zav. - prof. Sysoyev, I.I. [deceased]) Krymskogo meditsinskogo
institute (dir. - dotsent S.I.Georgiyevskiy).

(ERISMAN, FEDOR FEDOROVICH, 1842-1915)
(SUSLOVA, NADEZHDA PROKOF'EVNA, 1843-1918)



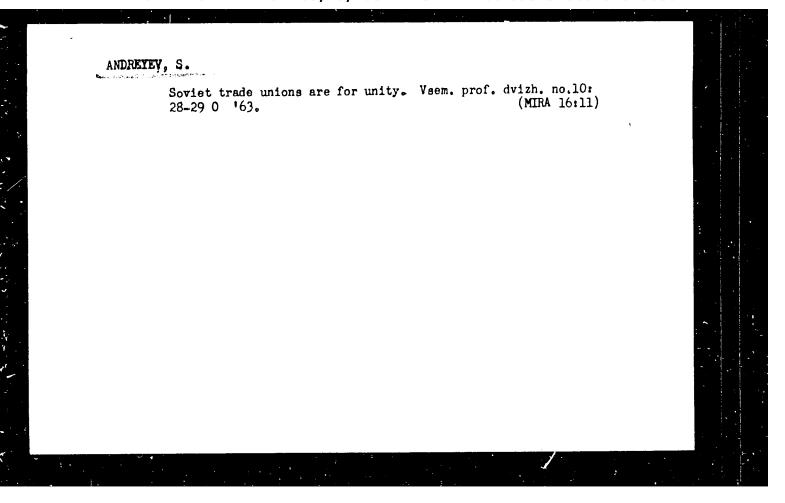


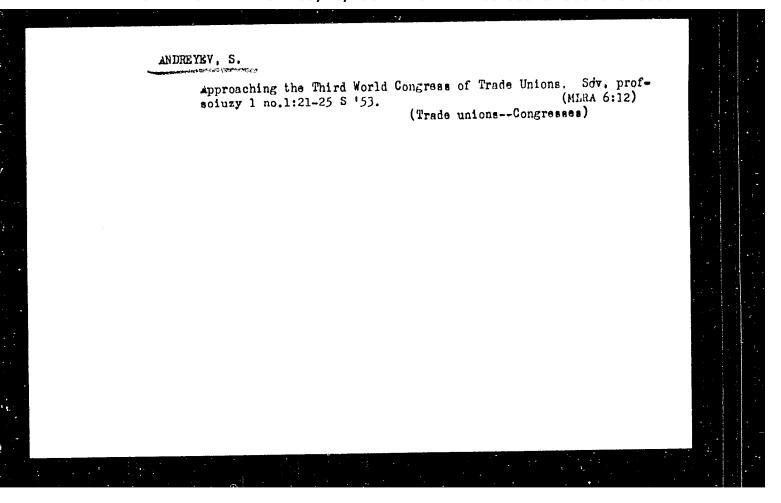
ANDERTEY, Rodion Petrovich; POPOV, A.S., redaktor; KIRSANOVA, tekhnicheskiy redaktor.

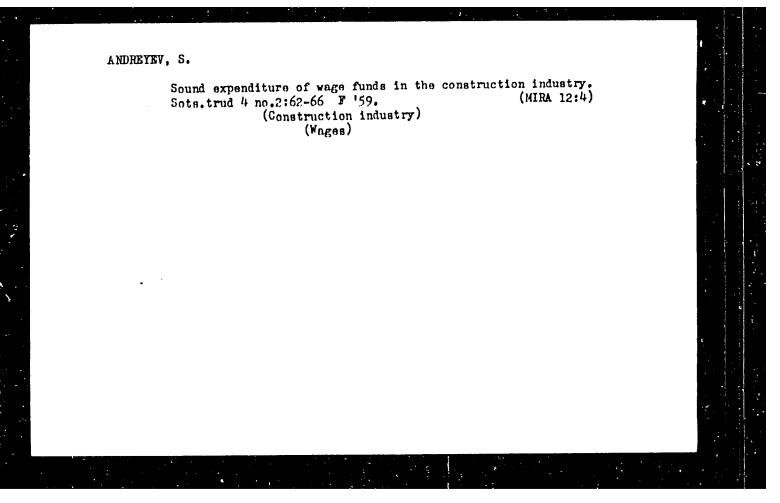
[Let's raise our labor productivity] Ea povyshenie proisvoditel'nesti truda. Moskva. Izd-ve VTeSPS profisdat, 1955. 29 p. (MIRA 915)

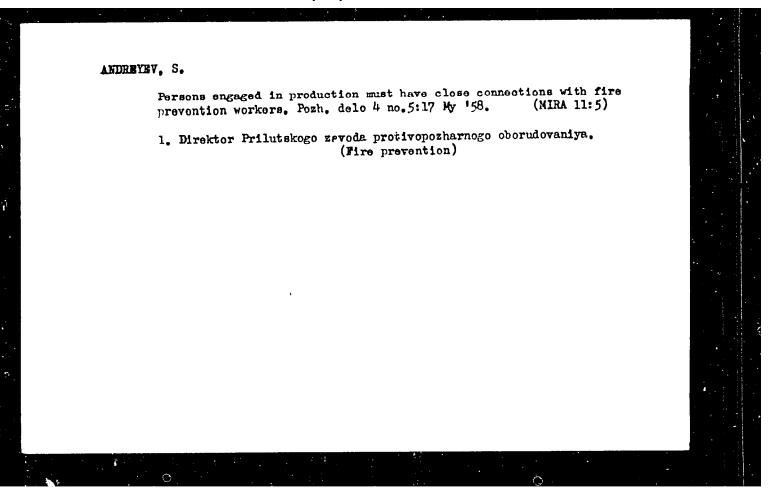
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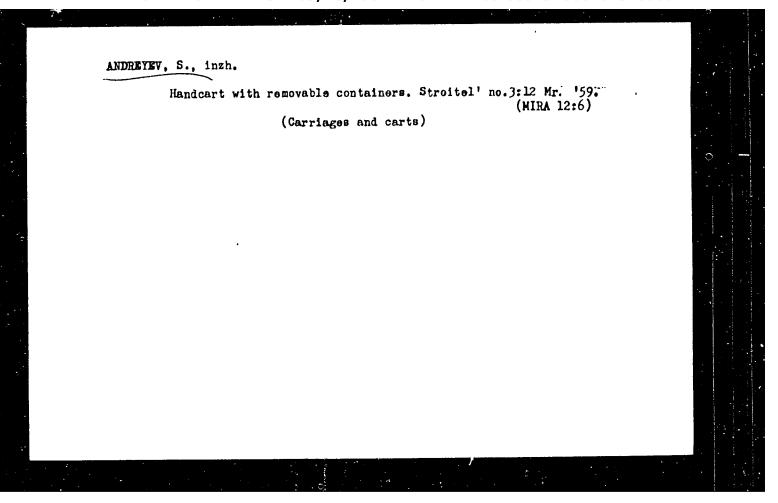
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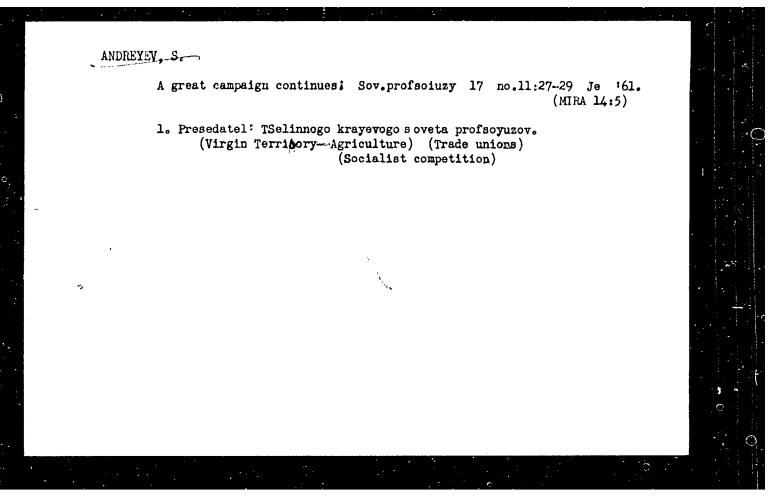


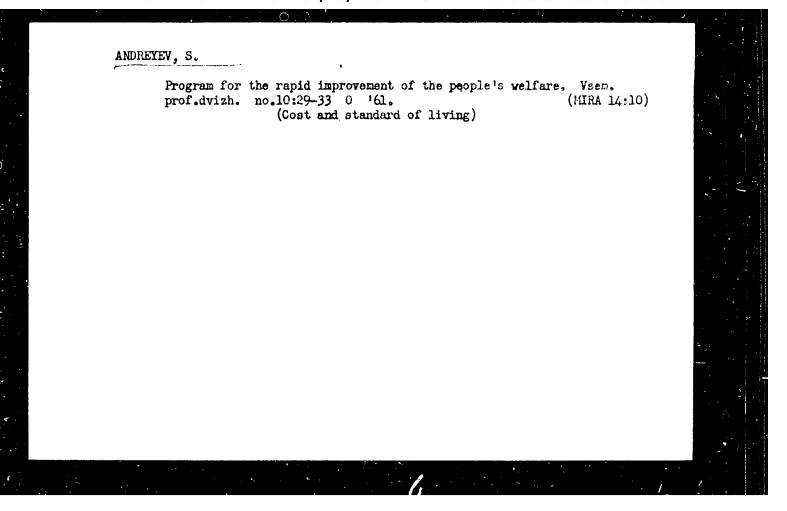


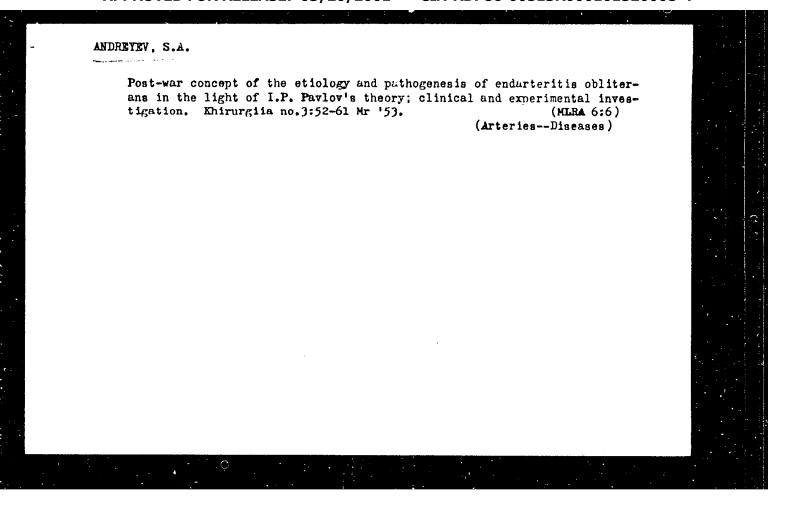




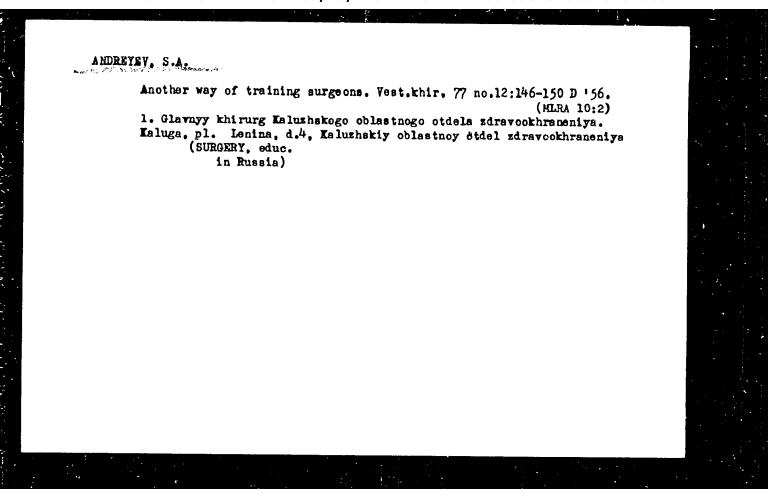


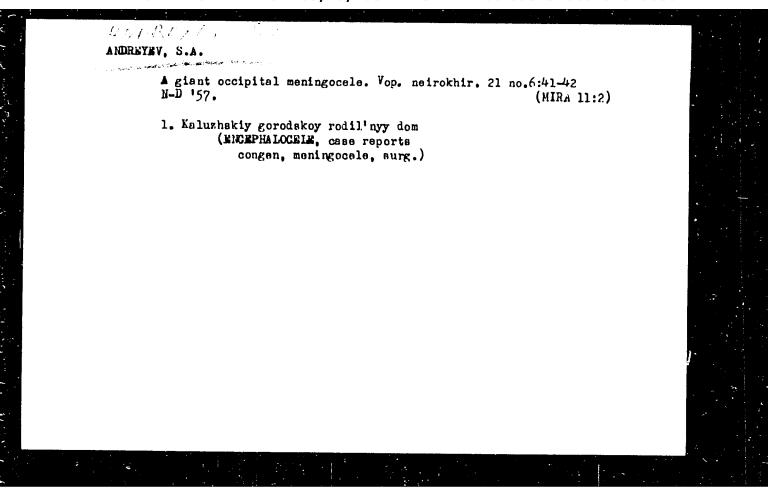






ANDREYEV, S.A. Doubl's invagination of the ileum into the caecum in cancer. Khirurgiia no.4:79 Ap '55. 1. Voroneshskiy oblastnoy gospital' dkya invalidov Otechestvenmey voymy. (INTESTINES--INTUSSUSCEPTION)





ANDREYEV, S.A.

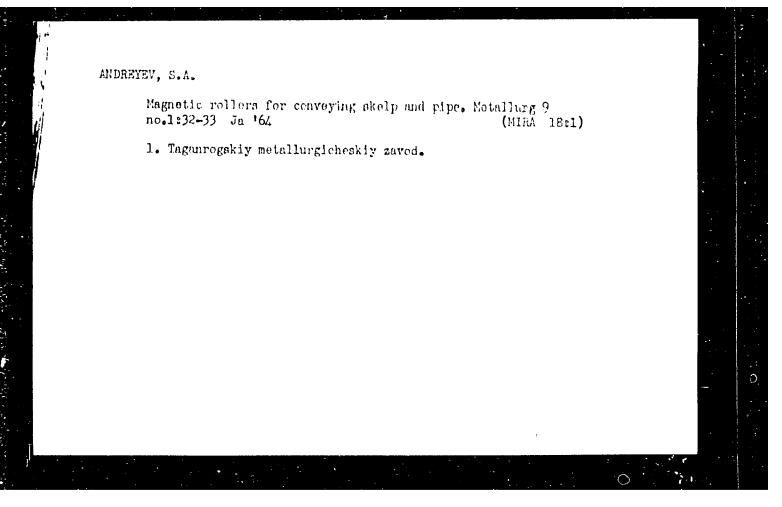
Position and role of specialists in public health practice. Zdrav. Ros. Feder. 2 no.2:29-31 F '58. (MIRA 11:3)

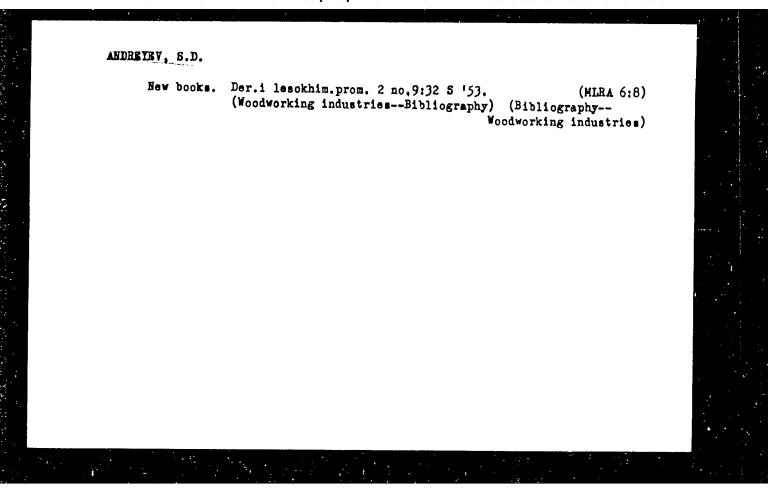
1. Glavnyy khirurg Pskovskogo oblastnogo otdela zdravookhraneniya.

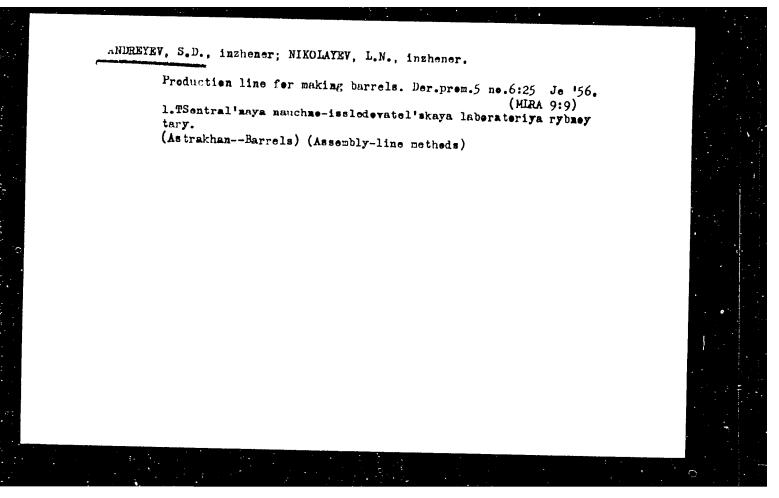
(MEDICINE--SPECIALITIES AND SPECIALISTS)

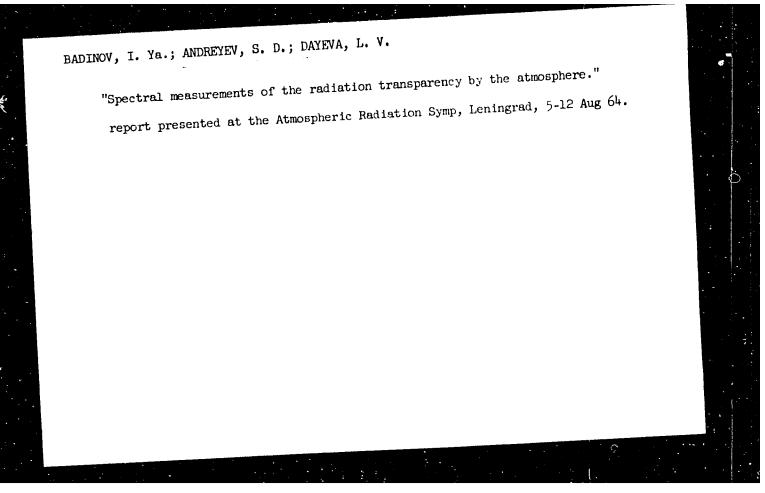
(PUBLIC HEALTH)

ANDREYEV, S.A. Promoting technical books in plants. Opyt rab. po tekh. inform. i prop. no.1:40-41 '63. (MIRA 16:12) 1. Starshiy inzh. otdela tekhnicheskoy informatsii Taganrogskogo gosudarstvennogo metallurgicheskogo zavoda.









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TITUE: Equipment C chermal radiation o	or studying the				
hermal radiation of		a atmosfery 1	okeana, V. 1.	no. 2)	4
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1965, 175-192 TOPIC TAGS! radia lation, thermal ra system, monochroma	lation, spectro	hotometer, put Thorne spect	rometer	n i like	
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ENT(1)/ENG(v) Pe-5/rae-2 ь 527b9-65 UR/0362/65/001/004/0363/0376 ACCESSION NR: AP5013174 AUTHOR: Kondrat yev, K. Ya., Badinov, I. Ya., Ashcheulov, S. Y., Andrevey, S. TITLE: Some results of surface measurements of atmospheric infrared absorption and thermal radiation spectra SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 4, 1965, 363-376 TOPIC TAGS: atmospheric infrared absorption, atmospheric infrared emission, atmospheric optical thickness, water vapor absorption, aerosol attenuation, solar infrared radiation, surface radiation measurement, thermal radiation spectrum ABSTRACT: Using 12 Soviet and 28 Western references, beginning with the paper by W. M. Elsasser (Note on atmospheric absorption caused by the rotational water band, Phys. Rev., 53, no. 9, 1938), the suthors collected and analyzed the data from surface measurements of the infrared transparency and heat radiation of the entire thickness of the atmosphere within its $8-12~\mu$ "transparency window" and in the regions adjacent to this band of wavelengths. They determined the magnitude of the atmospheric optical thick ness for various wavelengths and divided it into components, determining the influence of various factors attenuating long-wave radiations (water vapor, aerosol attenuation). Data characterizing the geographical changes in the infrared transparency of the entire Cord 1/2

L 52749-65

ACCESSION NR. AP5013174

atmosphere are also correlated. The paper also reports on determinations of the absolute spectra of the solar radiation above the atmosphere from the measured values of the incident radiation and atmospheric absorption at the surface of the earth, and compares them with the previously known data. A study of the energy distribution within the spectrum of the atmospheric intrared radiation is followed by a discussion of the basic regularities of the variations in the spectral composition of atmospheric radiation and a general comparison of all the experimental results with theoretical predictions. Although one observes a generally fair agreement, the field is still in need of further studies. First among the future tasks is the construction of terrestrial devices with higher resolving power for the study of the line structure of the absorption and emission spectra. Next, the terrestrial results should be complemented by data similar to those discussed in the present article, imeasured in the free atmosphere. Orig. art. has: 1 formula, 10 figures, and 3 tables.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: 14Jul64

ENCL: 00

SUB CODE: ES, AA

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OTHER: 028

ATD PRESS: 4013

Sect. 2/2

L 21533-66 EWT(1) GW	
ACC NR. AT6007619 SOURCE CODE: UR/2960/65/000/003/0160/0173	
AUTHOR: Badinov, I. Ya.; Andreyev, S. D.	
ORG: none B+/	
TITLE: Earth's atmosphere transmission and segregation of the optical thickness nto components in the 8-13-micron IR spectral region	
SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 160-173	
TOPIC TAGS: terrestrial atmosphere, optic thickness, IR absorption	
ABSTRACT: The results of measurements of IR atmospheric transmission obtained by a number of Western investigators (in 1951-63) were found to be discrepant and inconclusive. Hence, a new investigation was organized using this method: By recording solar spectra at different altitudes of the Sun, the atmosphere optic	
thickness can be estimated from: $\tau_{\lambda} = \frac{\ln l_{\lambda 1} - \ln l_{\lambda 2}}{m_1 - m_1}$, which also permits computing	
$I_{\phi\lambda}$ and using the "short" Buge method: $\tau_{\lambda} = \frac{\ln I_{\lambda_{\bullet}} - \ln I_{\lambda}}{m}$. The atmosphere optical	
thickness can be represented by this sum: $\tau_1 = \tau_{\lambda_w} w_1 + \tau_{\lambda_w}$ where τ_{λ_w} is the optical	ري و
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	0.

L 21533-66 ACC NR. AT6007619 thickness of water vapor, w, is the vapor content, and The is the residual optical thickness due to the absorption in weak lines and fringes of water-independent atmosphere components and also due to the effect of little-selective aerosol absorption. A specially designed automatic IR spectrophotometer permitted aiming at the center of the solar disk with an angular error of 30". The total content of water vapor in the atmosphere was measured by a special instrument which determined the ratio of the solar-radiation intensities within narrow spectral bands inside and out of the 0.935-micron vapor-absorption spectral line. The spectral transmission of the atmosphere and the vapor content were measured at these three points: the Terskol Peak (near Elbrus, altitude 3100 m), May-Sept 1962; Mineral'nyye Vody (town in the N. Caucasus, altitude 310 m), Oct 1962; and in Leningrad, May 1963. Tables and curves represent numerical measured data. "In conclusion, the authors wish to thack D. V. Andreyev, B. A. Pavlov, and L. N. Sen'ko for their part in the

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 012/ATD PRESS: 42/9

has: 5 figures, 4 formulas, and 2 tables.

measurements, and also V. B. Lipatov for his help in data processing." Orig. art.

Cord 2/2

ſ	L 22957-66 EWT(1) CW SOURCE CODE: UR/2960/65/000/003/0174/0188		
	ACC NR: AT6007620 SOURCE CODE: UR/2960/65/000/003/0174/0188 AUTHORS: Badinov, I. Ya.; Andreyev, S. D. 4/6 4/3		
	ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)		
	TITLE: An aerostat complex of automatic solar spectrophotometers for optical sounding of the free atmosphere in the region of the spectrum from 0.4 to 14 microns	*.	
	SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 174-188		
	TOPIC TAGS: spectrometer, spectrometry, spectrum analyzer, solar spectrum, atmospheric infrared absorption, atmospheric optics		
	ABSTRACT: The authors describe a system for making studies of the infrared solar spectrum. The description of the components and functioning of the system is preceded	•	
	by a brief review of recent research in the field of infrared solar spectroscopy. Contributions from fourteen Soviet and foreign papers are cited. The system used by		
	the authors employs three spectrometers which cover the band of wavelengths from 0.4 to 14 microns. The spectrometers work in parallel. Input slits of the monochromators		
	are illuminated by means of a servosystem mirror as described by I. Ya. Badincv (Trekhstupenchataya fotoelektricheskaya sledyashchaya sistema na tranzistorakh. ISZ, vyp. 13, 1963). This system is self-aimed at the sun and is powered by a variable		q
	potential. The construction of the mirror mechanism is such that the input slit may be illuminated by both solar radiation and other types of incident radiation. Auxiliary		
		2.	
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	ACC NR: AT6007620	3	
	systems include devices for modulating monochromatic light, an amplifier-transducer internal mechanism, oscillograph output recorder, and a programmed control mechanism. The functioning of the total system is detailed with the support of a block diagram and section diagrams showing the manner of suspending the device, the spectrophotometric optical system, and the control system. The authors thank A. Ye. Kovalev for calculating and laying out the electrical part of the apparatus, B. A. Pavlov for erecting the mechanical part, and S. E. Gendel's for aid in preparing the apparatus. Orig. art. has: 5 figures.		
	SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 013		
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	Card 2/2)6	.•	
e			

EWT(1)/FCC ACC NR AT6007621 SOURCE CODE: UR/2960/65/000/003/0189/0202 AUTHORS: Badinov, I. Ya.; Andreyev, S. D.; Poberovskiy, A. V. ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet) TITLE: Absolute spectral measurements of solar radiation in the infrared region of the spectrum from 3 to 13 microns SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 189-202 TOPIC TAGS: spectrometer, spectrometry, spectrum analyzer, solar spectrum, atmospheric infrared absorption, atmospheric optics ABSTRACT: A study of solar infrared radiation is conducted for the purpose of determining: 1) absolute values of solar energy beyond the atmosphere in the interval from 3 to 13 microns by using data from relative measurements of spectral transparency of the atmosphere; 2) temperature intensities of the center of the solar disk in the given interval; 3) the total energies of the sun included in the same given interval; and 4) energies absorbed by the earth atmosphere in various conditions. The following criteria were established for the construction of a model of an absolutely black emitter: 1) the required aperture in the emitting cavity must have a diameter of 28 mm; 2) the working temperature must be 700--850K; 3) the emissivity of the model must be not less than $\varepsilon = 0.99$, for which, a) the relative opening of the cavity must be small, b) gradients of temperature along the working cavity of the black body must be Card 1/3

L 22956-66

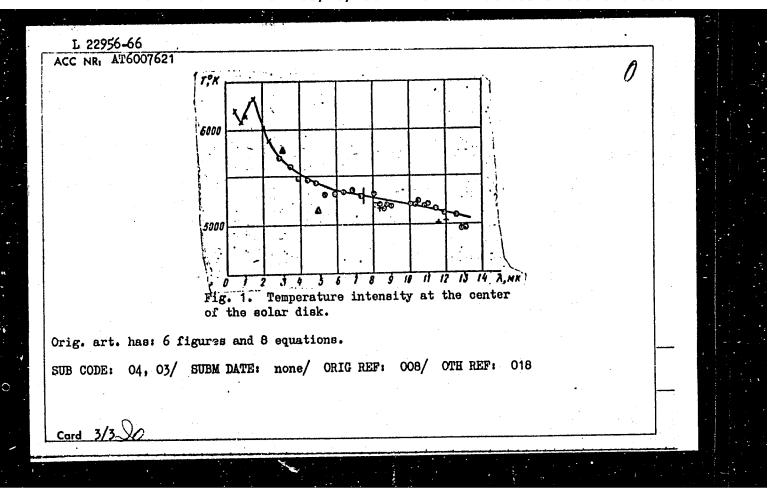
ACC NR. AT6007621

reduced to a minimum, and c) the temperature of the illuminator must be maintained with high accuracy. The emissivity of an absolutely black body of the cylindrical type with a conical base is given approximately by the formula

 $e = 1 - \frac{\rho}{1 - \rho} \cdot \frac{d^3}{4l^2} \sin \varphi,$

where P is the reflectivity of the cavity walls, d is the diameter of the aperture in the emitter cavity, \$\ell\$ is the length of the cavity, \$\ell\$ is the angle of exposure of the cone. The black body emitter is detailed by means of a section diagram and a diagram showing the optical system related to the emitter. Details of the calibration of the emitter and the results of calibration tests are given. The results of measurements of temperature in the center of the solar disk are shown in Fig. 1. Solar wave energy distribution curves are also plotted and compared with measurements obtained in prior research. The authors thank K. Ya. Kondrat'ev, S. L. Gendel's, and L. B. Lambin for their preparatory assistance, and D. V. Andreyev, B. A. Pavlov, and L. N. Sen'ko for their participation in the measurements.

Card 2/3



L 32711-66 ACC NR: AT6015111 SOURCE CODE: UR/3199/66/000/012/0066/0079

AUTHOR: Badinov, I. Ya.; Andreyev, S. D.; Lipatov, V. B.

ORG: none

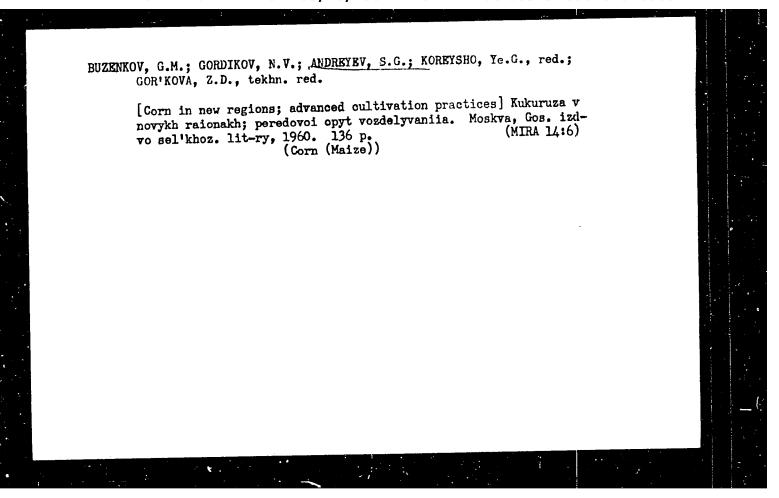
TITLE: Humidity measurements in the upper atmosphere

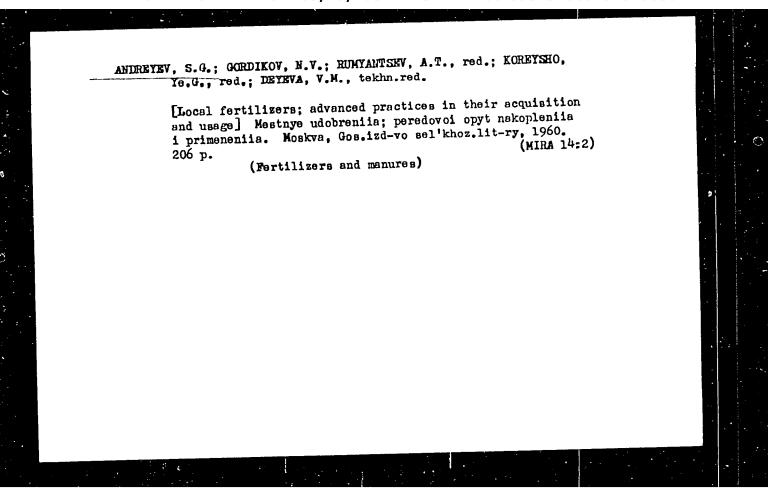
SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Meteorologicheskiye issledovaniya, no. 12, 1966, 66-79

TOPIC TAGS: atmospheric humidity, water repor, upper atmosphere, stratosphere, solar spectrum, meteorologic balloon, spectrophotometer, Armospheric water varent

ABSTRACT: A critical summary of measurements of upper atmospheric humidity (by airborne investigations using a condensation hydrometer, spectral investigations over England, and measurements in the USSR) is given. Detailed descriptions of the atmospheric humidity measurements carried out by automatic balloon solar spectrophotometers are given. The solar spectrophotometers were designed by the Department of Atmospheric Physics of Leningrad University. The instruments recorded the solar spectrum within the region of 0.4-13 microns. A spectrum up to 25-28 km was recorded. The integral content of water vapor above various levels was defined by the bands 0.94, 1.13, 1.39, 1.87, and 6.3 microns. On 23 October, about 1 micron of water vapor was found above the 28-km level. A small content of water vapor (on

Cord 1/2





ANDREYEV, S.C.; BERSHADSKIY, G.Yu.

Mechanized method for pressing rubber rings into SKO lids.

Kons. i ov. pron. 13 no.6:17-20 Ag '58. (MIRA 11:9)

1. Spetsial'noye konstruktorskoye byuro Ukrainskogo nauchnoissledovatel'skogo instituta konservnoy promyshlennosti.

(Cansing industry--Equipment and supplies)

507/72-59-2-12/21

Afanas'yev, A. N., Pototskaya, G. V., Andreyev, S. I., 15(6) AUTHORS:

Surovisev, V. P.

Tank Furnaces for the Melting of Glass Poor in Alkali (Van-

naya pechi dlya varki maloshchelcohnogo stekla) TITLE:

Steklo i keramika, 1959, Nr 2, pp 37-39 (USSR) PERIODICAL:

Low alkali content glass of the trade-mark 13v was melted in ABSTRACT:

the years from 1956 to 1958 in the test glass works. The furnace with passage and horseshoe-shaped flame is depicted in figure 1. Experiments carried out by the laboratoriya egneuporov Instituta stekla (Glass Institute Laboratory of Refractories) showed that quartz beams are to be regarded as the most stable refractory for the 13v glass. To test their performance under factory working conditions the melting section of the furnace basin as well as

the furnace passage were lined with quarts beams of the dimensions $900 \times 250 \times 90 \div 100$ mm. The furnace bottom and the basin walls of the furnace processing section were lined with fire-

clay beams. The furnace front wall was experimentally built of dinas slabs SD-7. The longitudinal walls of the basin melting

section were equipped with water coolers (Fig 2) and the front Card 1/2

SOV/72-59-2-12/21

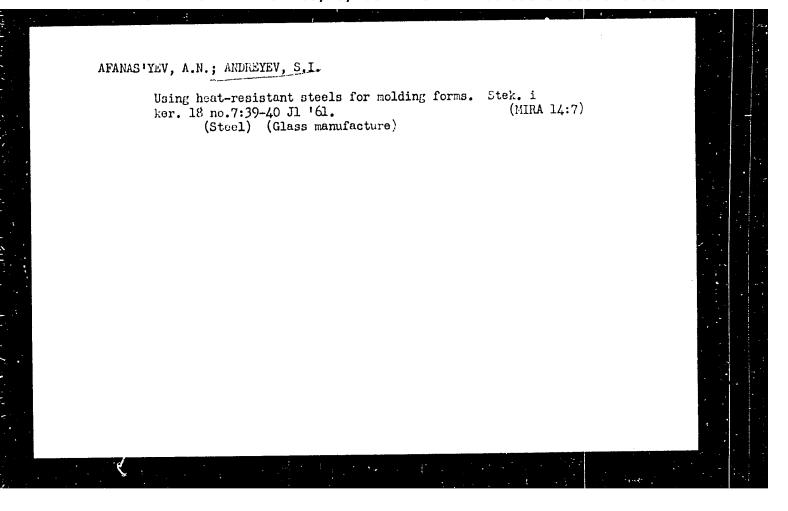
Tank Furnaces for the Melting of Glass Poor in Alkali

wall with air-cooling under the burners. The furnace melting section temperature amounted to 1470*10° and 1280-1320° in the processing section. The furnace was shut down after a campaign of 20 menths. The quarth beams were in good conditions (Fig 3) and so was the furnace passage (Fig 4). The wear of the dinas slabs in the furnace front wall was negligible (Fig 5). The furnace floor with the SSh-1 beams was considerably damaged by 2 campaigns (Fig 6). Conclusions: quarto products are regarded as the best refractories for the melting of 13% glass. Dinas in the form of large blocks is suitable for the basin walling. It would be useful to experimentally build the furnace bottom of dinas, so as to eliminate fire-clay entirely. There are 6 figures.

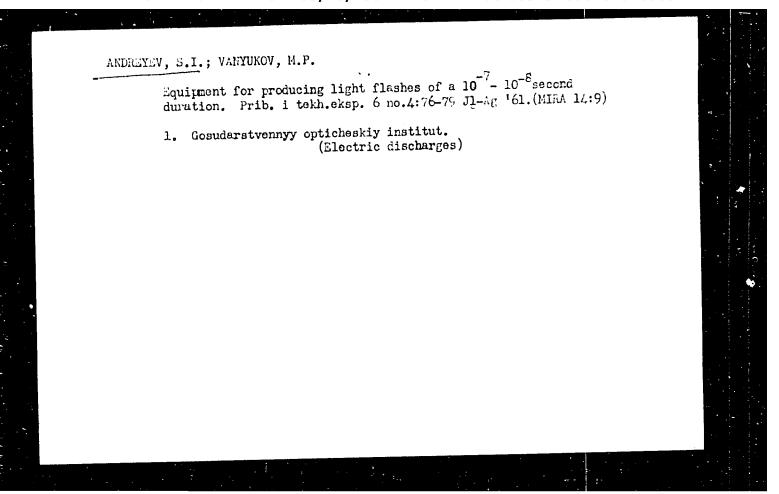
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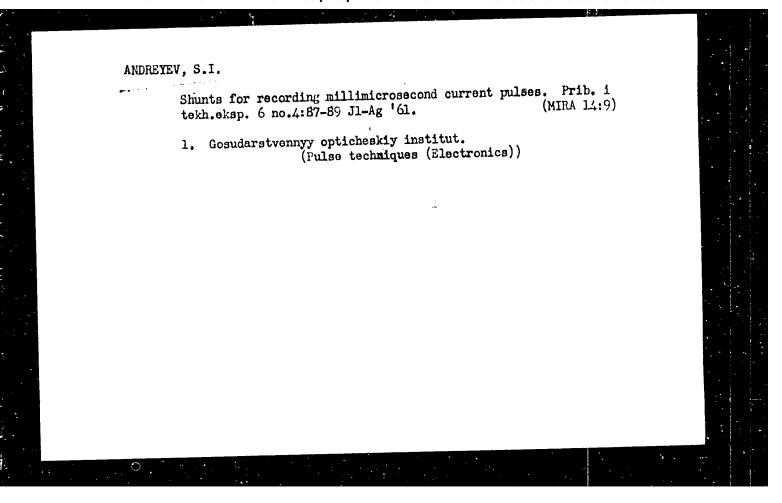
Opythyy zavod Instituta stekle (Glass Institute Experimental Factory)

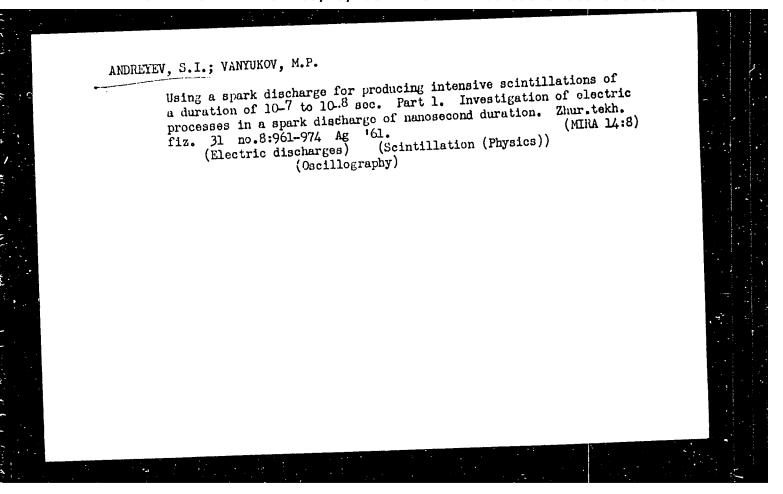
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L 25280-65 ACCESSION MR: AP5003034 plates in a plane perpendit possible to reduce the volume about 80% by a factor 5-6 imately 50 times compared Yanyukov for interest and	cular to the optical axis tage pulse corresponding times and to increase the with the first branch, with the first branch, support, "Orig. art, ha	of the beam. This made is to a depth of modulation of time resolution by appropriate authors thank M. P. It is a figures and 2 formulation of the surface o	t of ox- es: [02]
ASSOCIATION: none		SUB CODE: 05	
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5/120/62/000/002/029/047 E192/E382

Andreyev, S.I., Vanyukov, M.P. and Daniel', Ye.V.

Increase in the intensity and reduction of the duration of a light burst radiated by a spark discharge AUTHORS: TITLE:

Pribory i tekhnika eksperimenta, no. 2, 1962, PERIODICAL:

The discharge system which was investigated experimentally is shown in Fig. a. The tube contains 5 metal plates 1, which are in the form of steel discs, 0.2 mm TEXT: thick and 12 mm in diameter. The centres of the discs are provided with brass inserts 2, whose heads are hemispherical and have a curvature of 0.2 mm. The plates are furnished with sector-shaped apertures as outlets for the light. The discs are kept in position by means of the dielectric cylinder 3, which is also provided with an aperture. The spacing between the discs is determined by the thickness of the dielectric washers 4, the dielectric being perspex. The system is mounted between two massive brass electrodes 5. The overall

Card 1/3

S/120/62/000/002/029/047 E192/E382

Increase in the intensity

length of the air gaps is 4.3 mm. The discharge is initiated under the following conditions (Ref. 3 - the authors - Zh. tekhn. fiz., 1961, 31, 961): capacitance of the condenser $C = 0.015 \mu F$, voltage U = 15 kV and inductance of the circuit L = 11 nH. The constructional details of the circuit were described in Ref. 4 (paper read by the authors at the Second Conference on High-speed Photography and Cinematography). The experiments were carried out with single discharges in air and the electrical and light characteristics of the discharge were ... compared with those of the similar characterics of a normal air gap, 4.9 mm long. It was found that the discharge was oscillatory and that the presence of a number of metal plates in the gap resulted in an increase in the gap resistance. The measurements also showed that the additional metal plates led to a 30% reduction in the duration of the light bursts and a 1.8-fold increase in the intensity of the light emitted per unit length of the gap (when compared with the performance of a normal gap). This increase in intensity and reduction in duration of the discharge was observed over the whole investigated spectrum Card 2/3

5/120/62/000/003/020/048 E039/E135

9.3280 (also 2301, 2901)

Andreyev, S.I., Vanyukov, M.P., and Serebryakov, V.A.

The use of ferrites for the generation of powerful AUTHORS:

high voltage pulses of nanosecond duration

PERIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 89-92

The characteristic sharp change in the value of the magnetic permeability # of ferrites with increasing magnetic magnetic permenority μ of ferrites with increasing magnetic field causes the generation of a high voltage pulse U_p when a ferrite element is included in a spark discharge circuit

 $U_{p} = L_{o}\mu(t) \frac{di}{dt}$

where: L_0 is the inductance of the ferrite element at $\mu = 1$; di/dt is the rate of change of current in the circuit. ferrites (Ni, Zn) φ-600 (F-600), φ-1000 (F-1000), φ-2000 (F-2000), (MgZn) MT -2000 (MT-2000) and ferrites with rectangular loops, are investigated. There appears to be little difference between the voltage pulses obtained using Ni, Zn group and the ferrites with rectangular loops. Amplitude and duration characteristics of the Card 1/2

APPROVED FOR RELEASE: U3/20/2001

CIA-RDP80-00513R000101520008-4

62/032/001/008/018

9,4120

Andreyev, S. I., Vanyukov, M. P., Komolov, A. B., (Deceased)

AUTHORS:

Development of the spark discharge channel with very steep

current increase in the discharge circuit TITLE:

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 1, 1962, 57-62

TEXT: The authors experimentally study the validity of the hydrodynamic theories on the development of a spark discharge channel by S. I. Drabkina (Ref. 1: ZhETF, 21, 473, 1951) and S. I. Braginskiy (Ref. 2: ZhETF, 34, 1548, 1958) for a very steep current increase in discharges up to 1 joule in air. Data on the widening of the spark channel were recorded by an electron-optical converter type TVM-3 (PIM-3) with oxygencesium and antimony-cesium photocathodes. The authors operated with 500-7500 pF capacitors, a voltage of 3-23 kv, and an inductivity of the discharge gap of 10-80 nHy. It was shown that the hydrodynamic theory by Drabkina agreed with the experiment in the first quarter of the oscillation period only. For later periods, the theoretical values of both the channel width and the widening velocity are too high. The values of the Card 1/2

s/057/62/032/006/015/022 B108/B102

AUTHORS:

Andreyev, S. I., and Vanyukov, M. P.

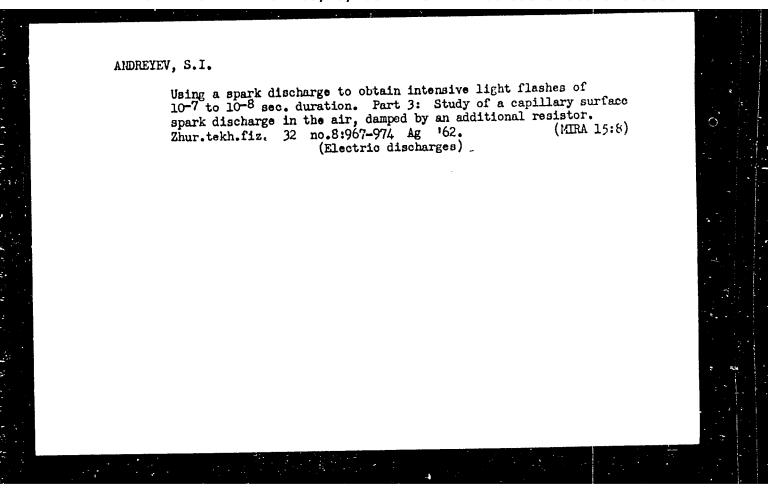
TITLE:

The use of a spark discharge to produce intense light flashes lasting 10^{-7} - 10^{-8} sec. II. Optimum relationship between spark energy in air and duration of the light flash

Card 1/2

Zhurnal tekhnicheskoy fiziki, v. 32, no. 6, 1962, 738 - 745

TEXT: The effect of the discharge parameters on the speed and duration PERIODICAL of energy delivery in a spark channel was studied in order to arrive at the optimum relation between discharge energy and length and intensity of the resulting light flash. On the basis of earlier work (ZhTF, 31, 961, 1961) it was established that under stiff discharge conditions 85 -95% of the total energy stored in a capacitor is delivered in the first semiperiod of the current oscillation. This fraction is determined only by the degree of the discharge $\gamma = U_0/L(di/dt)_{max}$. charge energy through raising the operating voltage entails a decrease in the overall duration of the electrical process. However, the duration of



9,3150 (1049,1482,1395)

34023 \$/056/62/042/001/048/048 B142/B112

AUTHORS:

Andreyev, S. I., Vanyukov, M. P.

TITLE:

"Channel propagation of strong miniature sparks" Remarks to the article by B. A. Demidov, Yu. F. Skachkov, and S. D.

Fanchenko

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

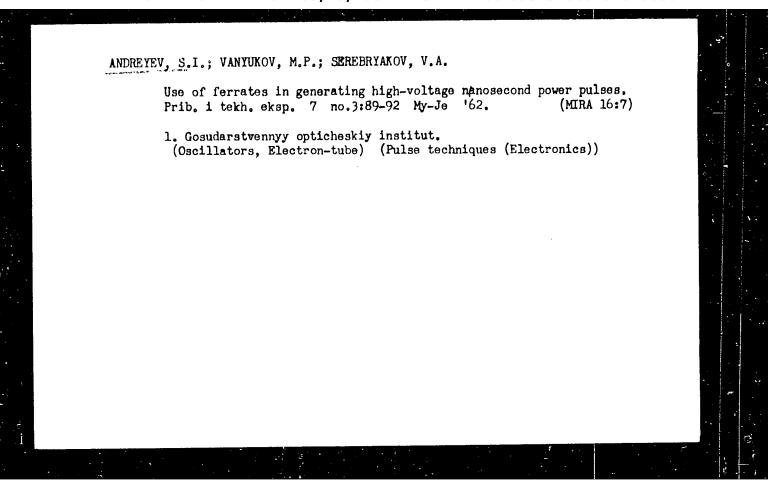
no. 1, 1962, 309

TEXT: The conclusion drawn by Demidov, Skachkov, and Fanchenko as the result of their studies on spark discharges of capacitors of low capacity, that the spark channel expansion at a rate of 60-80 km/sec is doubted. It is supposed that the substantiating picture does not represent the very spark channel, but the stage of streamer discharge preceding the channel propagation proper (analogous to the picture taken by Saxe and Chippendale). Final studies on the propagation rate of the channel are still necessary. The lines of investigation persued by Saxe and Chippendale should be followed. Also the rate at which the amperage is supposed to increase at the beginning of the discharge is considered too high for the investigation of the discharge is considered too high for the investigation that the second state of the channel are still necessary.

ANDREYEV, Semen Ivanovich, kand. geol.-miner. nauk; YEFREYKIN, A.K., prof., doktor biol. nauk, red.; FIL'CHENKO, R.D., red.; DEOMIDOV, N.D., tekhn. red.

[Soil erosion control; manual for agricultural workers in the Chuvach A.S.S.R.] Bor'ba s eroziei pochv, rukovudstvo dlia rabotnikov sel'skogo khoziaistva ChuvashskoiASSR. Cheboksary, Chuvashskoe knizhnoe izd-vo, 1962. 91 p. (MIRA 15:12)

(Chuvashia-Soil conservation)



ANDREYEV, S. I.; VANYUKOV, M. P.; DANIEL!, Ye. V.

Method for recording the radiation spectra of a pulse discharge with a time resolution of 10-8sec. Opt. i spektr. 15 no.6:
(MIRA 16:1)

(Oscillography) (Electric discharges)

ANDREYEV, S.I.; VANYUKOV, M.P.; STAROVOYTOV, A.T.

Effect of an external magnetic field on the light characteristics of a pulsed discharge in helium. Zhur. eksp. i teor. fiz. 43 no.3:804-807 162.

(MIRA 15:10)

1. Gosudarstvennyy opticheskiy institut.

(Magnetic fields) (Electric discharges through gases) (Helium)

ANDREYEV, S.I.; VANYUKOV, M.P.; STAROVOYTOV, A.T.

Effect of an extarnal magnetic field on the development of a pulsed discharge in argon. Zhur. eksp. 1 teor. fiz. 43 no.5:1616-1618 N '62. (MIRA 15:12)

1. Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova.

(Electric discharges through gases)

ANDREYEV, Sergey Vasil'yevich; MARTENS, Boris Konstantinovich;
TRUSHINSKIY, Aleksandr Nikolayevich; KAMPE-NEMM, A.A.,
red.; TELYASHOV, R.Kh., red. izd-va; GVIRTS, V.L., tekhn.

[Three-positional distance-type transistor temperature
regulator] Trekhpozitsionnyi distantsionnyi poluprovodnikovyi termoreguliator. Leningrad, 1963. 20 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki,
no.2)

(MIRA 16:10)

(Temperature regulators)

AFFTC/ASD/ EPF(c)/EWT(l)/EWP(q)/EWT(m)/BDS/EED(b)-3 L 18854-63 JD AFMTC/RADC/APGC/IJP(C)/SSD s/0057/63/033/007/0859/0863 Pr=4 ACCESSION NR: AP3003958 AUTHOR: Andreyev, S.I.; Vanyukov, M.P. TITLE: Investigation of the influence of afterglow on the duration of ultrashort light flushes produced by spark discharges SOURCE: Zhurnal tekhnicheskoy fiziki, v.33, no.7, 1963, 859-863 spark discharge, high-speed photography, nanosec light TOPIC TAGS: light flash, source , He, Ar, N, helium, argon, nitrogen ABSTRACT: In recent years a number of investigators have reported obtaining nanosecond light flashes from spark discharges in air, hydrogen and nitrogen. Spark discharges in inert gases, which have a high light yield, are not used for obtaining brief flashes owing to the persistent afterglow of such gases. But actually the reports of different experimenters on the total duration of light flashes in inert gases are conflicting. Hence it was deemed of interest to undertake a systematic investigation of the role of afterglow as regards the duration of light flashes appearing as a result of high-power narosecond discharges in different inert gases. The gases tested were A, He and N2. The discharges were realized in a Card 1/12/

"APPROVED FOR RELEASE: 03/20/2001

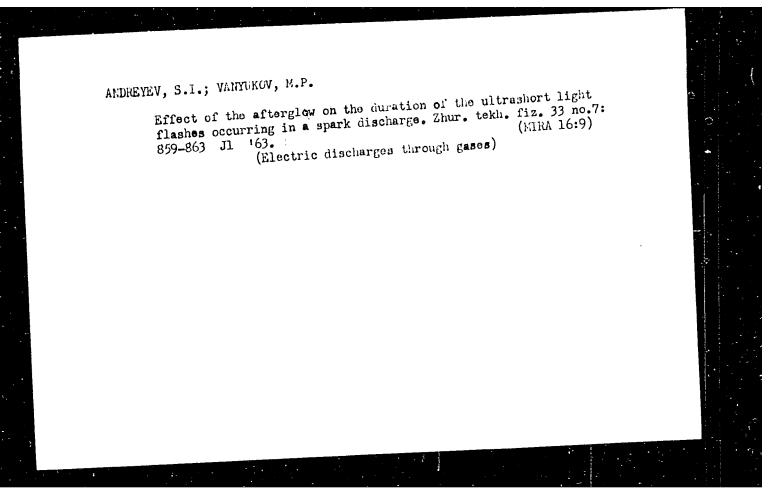
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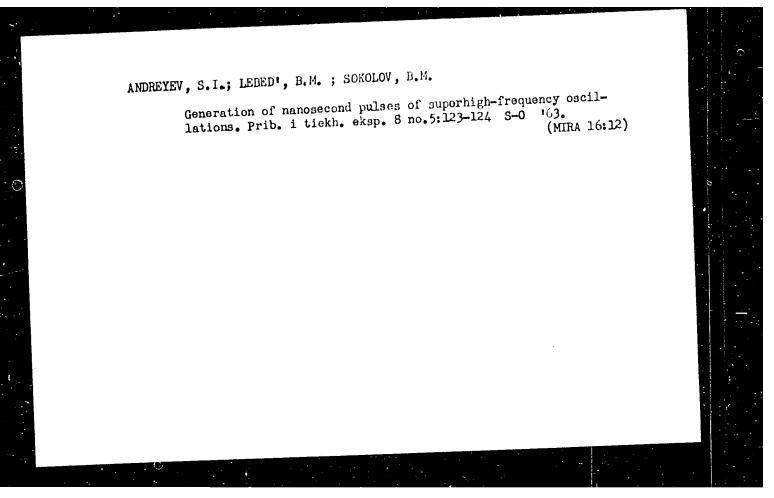
L 18854-63

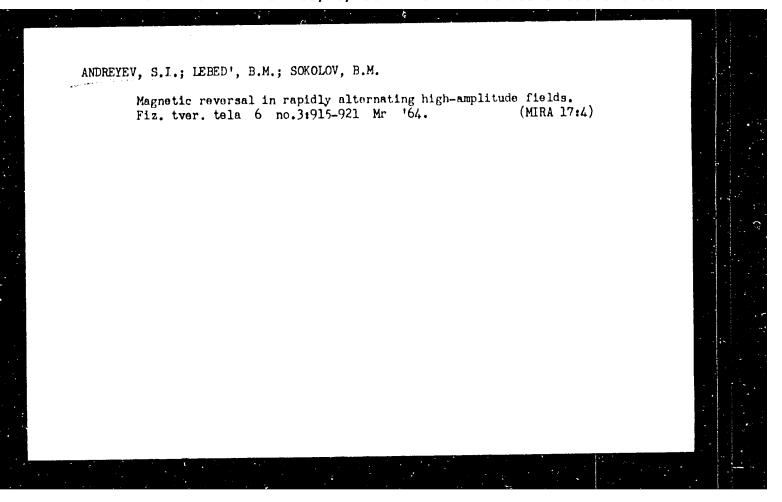
ACCESSION NR: AP3003958

circuit with a C = 900 pF capacitor at voltages V from 4 to 25 kV. The entire circuit was mounted in a sealed chamber which was filled with the investigated gas at different pressures to 25 atm. The discharge current was recorded with a time resolution of 10-9 sec; the discharge radiation with a resolution of 3 x 10-9 sec. The afterglow time tag was determined as the difference between the flash time tf, measured at 1/3 the peak intensity, and the total duration tc of the discharge current. Oscillograms show that the electric processes in the gap depend on the nature of the gas: discharges in a and He are aperiodic; those in N2 are oscillatory, tc for A and He is shorter than for N2.7/Curves for tag versus the rate of energy release in the gap are presented. At low discharge energies (under 0.01 joule) none of the testel gases exhibit afterglow. Increase of tag with discharge ower (and rate of energy liberation) is greatest in A, and very weak in N2. With increase of the gap width tag decreases in A, but not in He and N2. With increase of the gap width tag decreases in A, but remains virtually constant in He and N2. Thus, for discharges in argon one can reduce the afterglov time and total emission time by reducing C and increasing V and the gap width. Consequently, flashes of the same short duration as in N2 can be realized in He and A, but only at great scerifice in intensity. Orig. Art. has: 4 figures and 1 table.

Card 2/32







ACCESSION NRI APLIO19860

8/0181/64/006/003/0915/0921

AUTHORS: Andreyev, S. I.; Lebed', B. M.; Sokolov, B. M.

TITLE: Investigation reversals of magnetism in rapidly alternating fields of large amplitude

SOURCE: Fizika tverdogo tela, v. 6, no. 3, 1964, 915-921

TOPIC TAGS: magnetic reversal, Terromagnetic, ferrite, magnetic moment, magnetic damping

ABSTRACT: The authors' purpose has been to investigate the dynamics of magnetization reversal in ferrites in magnetic fields reaching 10³ cersteds during alternations of polarity at the rate of about 10¹¹ cersteds per second and to determine the damping parameters. It was discovered that the rate of change of the magnetic moment and the time of magnetization reversal decrease with amplitude of the field only up to a certain limit, determined by the composition of the ferrite and by the rate of change in the magnetic field. It was found that at reversal rates of 10¹⁰ cersteds per second or greater in the field, the time of

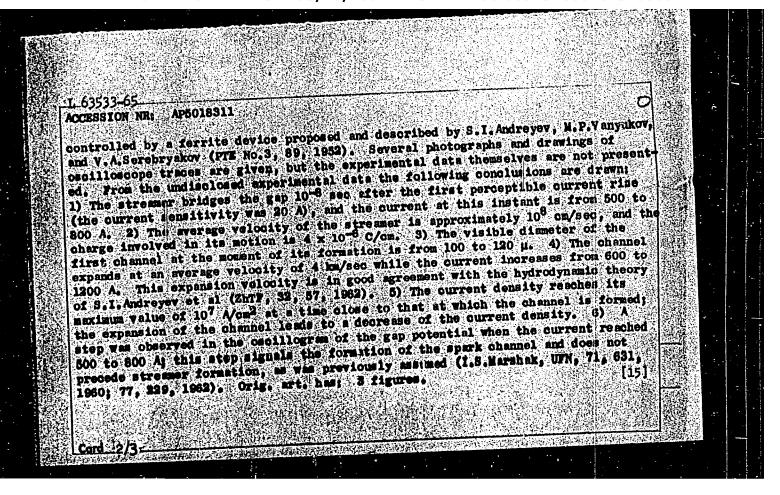
Card 1/2

ACCESSION NR: APLO19860 reversal and the rate of change of the magnetic moment in the ferrite no longer depend on the amplitude of the magnetizing (reversal) field at maximum fields of 300 cersteds or greater. At the maximum rate of field reversal used in the experiment, about 1011 cersteds per second, magnetization reversal took place in 10-8 seconds, and the energy of the process reached about 4.10-2 joules/cm3. The nature of the magnetization reversal is satisfactorily explained by phenomenological equations for precession of the magnetic moment of a saturated ferromagnetic. The damping parameters determined by ferromagnetic resonance agree in order of magnitude with the value determined by rapid reversal of magnetization. Orig. art. has: 4 figures and 7 formulas. ASSOCIATION: none ENCL: DATE ACQ: 31Mar64 SUBMITTED: 13Aug63 OTHER: 002 HO REF SOV: 008 SUB CODE: EM. Card 2/2

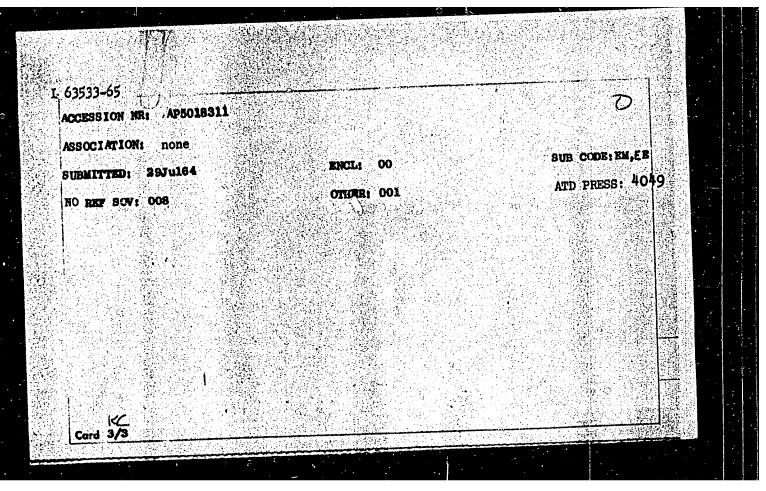
L 108(3-65 ENT(1)/EPA(a)=2/ENT(w)/EPF(n)-2/ENG(v)/EPR/ENP(b) Pe-5/Pa-4/ ESD/CS/API/SED/ESD/S 4D/EV/10 RI APA0A6350 Pt-10/Pa-4 RSI ACCESSION NRI 8/0057/64/034/010/1871/1872 AUTHOR: Andreyev, S. I.; Vanyukov, H. P. TITLE; The use of electrically exploded wires to obtain ultra sparks SQURCE: Zhurnal takhnichaakoy fiziki, v. 34, no. 10, 1964, 1871-1872 TOPIC TAGS: exploding wire, electric wire explosion, electric explosion, ultrashort flash, nanosecond flash ABSTRACT: The intensity of flashes of light in an air discharge gap having an exploding wire in sariss with it was experimentally investigated. A low-inductance circult yielding a maximum current rise rate of 4 x 1011 amp/sec was used. The exploding copper wires of about 10 mm in length and 0.02 mm in diameter were chosen to achieve interruption of the discharge current at the time of maximum flash intensity, which occurred about 10 nsec after the beginning of the discharge. The experiments revealed that the presence of the wire in the discharge gap effected a reduction in the duration of the flash without impairing its intensity, a Tungsten wires failed to yield ou Tungsten wires failed to yield cur-Cord 1/2

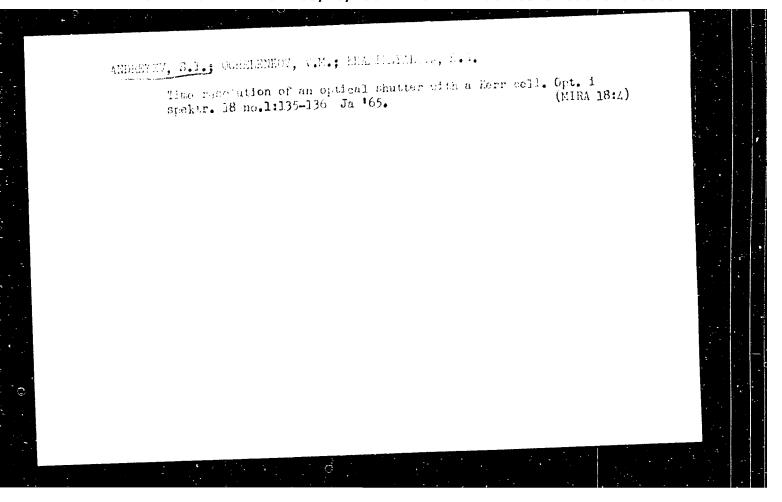
10805465 CCBBSION BRI APA ent interruption		roness as copper	The curren	2 t den-	
ten at a current ixes proved to be urrent interrupti iameter, for instant a subsequent ppraciable intensity of the function of	rate to a x 10 rather critics on. A copper was since, caused only new upsurge while ification of the conditions of the c	l amp/sec in bot l in effecting s ire 6.8 mm in le , a temporary in ch, however, did e flash. A table of the experimentained by include	h wases. The complete and ingth and 0.02 erruption of inot result ite presenting shows that makes the control of the per unit 1	wire sharp mm in current n an data aximum pper	
ire in the discussor the gap stems from the gap stems from the control of the con	Dasi 2 (igures	TODE * PRO N. Phore			
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63533-65 EPA(8)-2/EPA(W)-2/EWI(1 ACCESSION NR: APSO18311	537.523.4	
ANTHOR: Andreyev, S.I.; Scholov,	in air	
SOURCE; Zhurnal tekhnicheskoy 11	streamer, spark channel expansion	
ABSTRACT: Barly stages of spark pressure were photographed with the gap were recorded with an osi investigation was undertaken mai channel and the current in it at bridges the gap. These data are conditions for the theory of the	development in an 8-mm gap in air at atmospheric a Kerr cell shutter, and the current and voltage in alloscope having a resolving time of 10 sec. The cilloscope having a resolving time of 10 sec. The cilloscope having a resolving time of 10 sec. The cilloscope having a resolving time of 10 sec. The cilloscope having a resolving time of 10 sec. The cilloscope having a resolving time of 10 sec. The cilloscope having a transfer electrode in an opening in the cathode by a transfer electrode in an opening in the cathode litions similar to those obtaining when the discharge lect illumination of the cathode. The Kerr cell was	

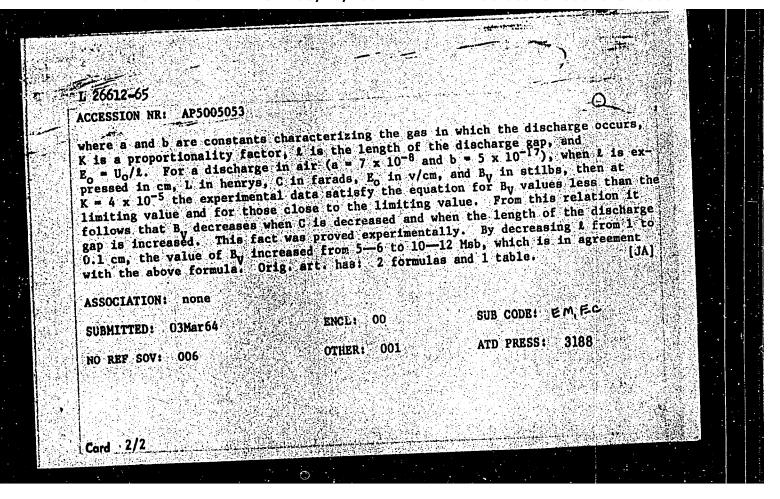


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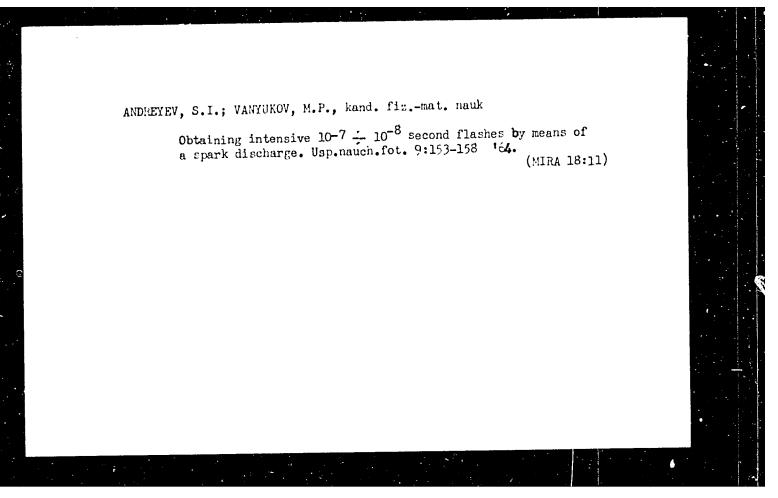
EAT(1)/EPA(w)-2/EEC(t)/EWA(m)-2 Pab-10 L 26612-65 5/0051/65/018/002/0333/0334 ACCESSION NR: AP5005053 23 Andreyev, S. I.; Vanyukov, M. P.; Daniel', Ye. V. AUTHOR: Brightness of a spark discharge channel of nanosecond duration spektroskopiye; v. 18, no. 2, 1965, 333-334 TOPIC TAGS: spark discharge, ultrashort discharge, ultrashort spark discharge, discharge channel, discharge channel brightness ABSTRACT: The relationship between the brightness of the channel of ultrashort discharges and the electrical parameters of the discharge circuit was determined. For ultrashort light flashes the ratio U_O/L (U_O is the discharge voltage and L the induction of discharge circuit) does not unambiguously determine the brightness of the channel. Thus, for example, in the case of ultrashort discharges obtained by decreasing the capcity C, the brightness of the channel descreases even if the value of the ratio Uo/L is high. Brightness decreases because at hard discharges the release of energy in the channel proportional to di/dt is not equal to the ratio U_0/L . The visual brightness $B_{\rm v}$ can be expressed by the relation Card 1/2



Land. DWT(1)/EPA(sp)-2/EPA(x)-2/EBC(t)/T/DMA(m)-2 1. 26958-65 8/0057/65/035/001/0101/0107 ACCESSION NR: AP5003242 Q AUTHOR: Andreyev, S.I. / Sokolov, B.M. Ultrahigh frequency investigation of plasma deionization, at atmospheric TITLE: pressure SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.1, 1965, 101-107 TOPIC TACS; plasma diagnostics, spark discharge, electron concentration, electron temperature, recombination coefficient, resonator Q factor, ultrahigh frequency ABSTRACT: An ultrahigh frequency method is described by which the time variation of the electron density and temperature of a plasma can be determined and some information can be obtained concerning the distribution of these quantities along the plasma column. This method was employed to investigate the deionization following a spark discharge in air at atmospheric pressure, and the results are presented and discussed. A 76 ohm coaxial resonator was employed. This was loaded with an adjustable internal dapacitance so that its resonant frequency could be varied slightly from the 750 Mc/sec exciting frequency. The spark discharge took place within the resonator and the characteristics of the resulting plasma were determined from Card 1/2

2 L 26958-65 ACCESSION NR: AP5003242 the shift in resonant frequency and the change in the Q of the cavity. The theory of these effects is discussed and it is shown that an average value of the electron concentration and temperature can be determined and some information can be obtained concerning the deviation from uniform electron density distribution. It was found that the electron density following a spark discharge in air is very uneven-ly distributed over the length of the gap. The volume recombination coefficient at electron concentrations between 108 and 1010 cm⁻³ was found to vary from 2 x 10⁻⁶. to 1.5 x 10^{-5} cm³/sec, depending on the length of the gap and the energy of the discharge. "In conclusion, the authors thank M.P. Vanyukov for his interest and sup port of the work, and V. Ye. Golant for a discussion and valuable remarks. "Orig. art has: 20 formulas, 5 figures and 1 table. ASSOCIATION: none SUB CODE: ME . NP ENCL: 00 SUBMITTED: 27Jan64 OTHER: 004 NR REF SOV: 009 Card 2/2

<u>L 1636-66</u> EWT(1)/EWA(h)	· · · · · · · · · · · · · · · · · · ·	5/000/003/0222/0224		
ACCESSION NR: AP5016400	621.3.032	.26	33	
AUTHOR: Andreyev, S. I.; Sokolo	оч, В. Н.		7	
TITIE: Simple vertical-sweep	generator for an image-con	verter tube		
SOURCE: Pribory i tekhnika eksp	perimenta, no. 3, 1965, 22	2-224		***
TOPIC TAGS: image converter, st	weep generator			-
ABSTRACT: A ferrite-type tubel producing high-voltage nanosec for the vertical sweep in an ifew kv voltage and then dischas voltage-peak oscillations in twave circuit and applied to the duration repeated at a rate of	mage-converter tube. A cap rged via an IC ferrite-coi he secondary. These peaks to image-converter-tube pla 5 Mc are mentioned.	acitor is charged by a circuit producing are rectified by a fites. Frames of 0.2	high ull-	
ASSOCIATION: Gosudarstvenny; of Institute, Leningrad)	pticheskly institute, Leni			
SUBMITTED: 30Mar64	ENCL: 00	SUB CODE: BC		
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EWT(1)/EPA(s)-2/EPA(w)-2/EWA(m)-2

ACCESSION NRI AP5020728

UR/0057,/65/035/008/1411/1418

537.524.4

AUTHOR: Andreyev, S. I.; Orlov, B. I. والمراوات والمال المعالمة

TITLE: On the theory of the development of a spark discharge. 1.

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 8, 1965, 1411-1418

TOPIC TAGS: spark discharge, plasma conductivity, spark plasma

ABSTRACT: This paper is concerned with the time variation of the current during the first half-cycle of the discharge in a circuit containing capacity, inductance, and a spark gap. The principal uncertainty in a theoretical treatment is the time dependence of the resistance of the gap. This was derived in the present treatment from the energy balance equation with the assumption that all the power released in the gap is expended in widening the spark channel, and not in heating the spark plasma, the resistivity of which was thus assumed to remain constant. This assumption is in a sense opposite to that employed by W.Weizal and R.Rompe (Zs. Phys., 122, 636, 1944; Ann. Phys., 1, 285, 1947), who neglected the power expended in widening the spark channel but took into account the increase in the temperature of the plasma. It was also assumed that the rate of expansion of the spark channel is

Card 1/2

L 00934-66

ACCESSION NR: AP5020728

related to the pressure within it in accordance with the findings of S.I.Braginskiy (ZhETF, 34, 1545, 1958), and that the radius of the channel at the instant it is formed is that given by the diffusion theory of streamer development (H.Raether, Zs. Phys., 107, 91, 1937). The time dependences of the discharge current and the spark channel radius were calculated numerically for a number of cases with discharge potentials ranging from 3 to 50 kv, circuit capacities from 0.0005 to 1.0 microfarad, experimental data of S.I.Andreyev, M.P.Vsnyukov, and A.B.Komolov (ZhTF, 32, 57, 1962; better than 9% for the current amplitude and 15% for he spark channel radius. For the gap length was less than 0.1 microhenry/cm, the best agreement was obtained with express their gratitude to S.I.Braginskiy for a number of valuable remarks concerning this work." Orig. art. has: 32 formulas and 2 figures.

ASSOCIATION: none

SUBMITTED: 300ct64

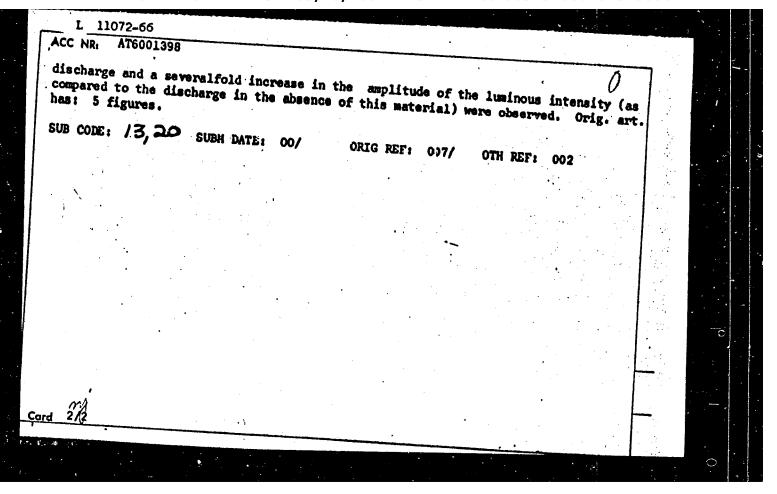
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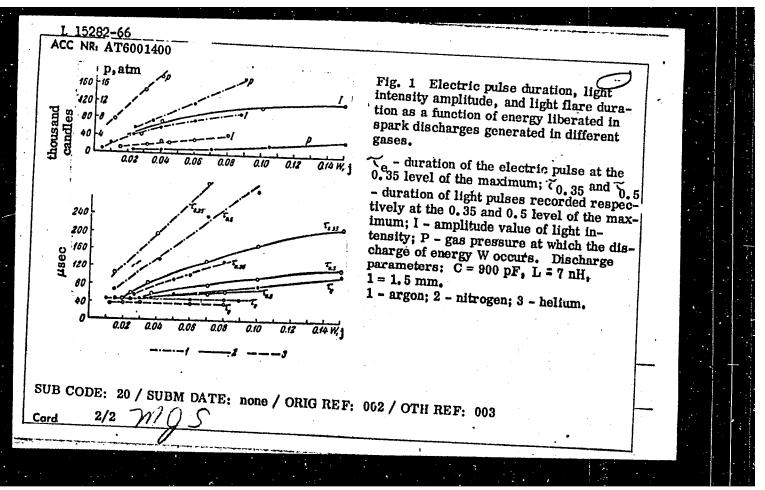
ENCL: 00 OTHER: 006

SUB CODE: ME, EM
ATD PRESS: 4677

11072-66 EWT(1)/EWP(e)/EWT(m)/EWP(b)/EWA(m)-2 ACC NRI AT6001398 SOURCE CODE: UR/3180/64/009/000/0147/0150 AUTHOR: Andreyev. S. I.; Vanyukov. H. P. (Candidate of physico-mathematical sciences) Daniel', Ye. V. ORG: none TITLE: Hethods of shortening the duration of light flashes emitted by a spark dis-SOURCE: AN SSSR. Komissiya po nauchnoy fotografii i kinematografii. Uspekhi nauchnoy fotofrafii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed photography and cinematography), 147-150 and insert facing page 113 TOPIC TAGS: flash lamp, spark gap, argon, ceramic dielectric, electric discharge, optic brightness ABSTRACT: The article deals with a study of the spark discharge on the surface of a ceramic material and when a system of metal plates are introduced into the spark gap in the case where the discharge takes place in argon. The metal plates were found to shorten the length of the discharge current pulse and to eliminate the afterglow with out changing the brightness amplitude of the flash. The number of plates must be increased as the energy of the discharge and the argon pressure are raised. When a ceramic material with a dielectric constant c = 150 was used, a marked desping of the <u>Card</u> 1/2



L 15282-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b) IJP(c) ACC NR: AT6001400 SOURCE CODE: UR/3180/64/009/000/0153/0158 AUTHOR: Andreyev, S. I.; Vanyukov, M, P. (Candidate of physico-mathematical sciences) TITLE: Production of intense 10^{-7} — 10^{-8} sec light flares by means of spark discharges SOURCE: AN SSSR. Komissiya po nauchnoy fotografii 1 kinematografii. Uspekhi nauchnoy fotografii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed photography and cinematography), 153-158 and insert facing page 168 TOPIC TAGS: light source, electric discharge, gas discharge, argon, nitrogen, helium ABSTRACT: Several researchers discussed recently the production of light flares shorter than 10⁻⁷ sec by means of spark discharges. However, the question concerning the maximum intensity of such flares was left open. The present paper reports on the studies of physical conditions which determine the relationship between the energy fed into the discharge gap and the duration and luminous intensity of the resulting flare. The authors discuss in a semiempirical manner the process of liberation of electrical energy within the spark discharge channel, present diagrams showing the changes in time of electrical characteristics of spark discharges in air (in particular of the changes of the specific and total spark resistance within the channel), survey the methods for the shortening of the duration of the light flare and present experimental results (summarized in Fig. 1) for the cases of spark discharges



L 23491-66 EWT(1) ACC NR: AP6007086 UR/0057/66/036/002/0349/0352 AUTHOR: Andreyev, S.I.; Sokolov, B.M. ORG: None TITLE: Investigation of the breakdown mechanism of a short air gap. 2. SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 2, 1966, 349-352 TOPIC TAGS: spark discharge, spark gap, air, brass, steel, nanosecond pulse, electric discharge radiation, electric conductivity ADSTRACT: The authors have investigated the breakdown of an 0.6 mm gap in air at atmospheric pressure between 1 mm radius hemispherical electrodes of brass (cathodo) and steel (anode by 4.6 kV pulses of 20 nanosec duration. The pulses were produced by demagnetization of ferrite rings, using a technique previously proposed by S.I. Andreyev, M.P. Vanyukov, and V.A. Serebryakov (PTE, No. 3, 89, 1962). The pulse height was so chosen that discharge did not occur every time the pulse was applied. The voltage across the gap and the current through it were recorded with an oscilloscope, and the spark was photographed with its own light. No radiation from the gap was observed when the discharge current was less than 1.5 A. A weak diffuse luminosity was apparent when the discharge current was about 2 A, and as the current increased from 2 to 4 A there appeared an approximately 65 micron diameter cathode spot and the luminous column increased in diameter toward the anode, where its diameter was sometimes as large as 150 mic-Card 1/2 UDC: 537.523.4

	L 23491-66 ACC NR: AP6007086 Cons. When the diffuse luminosity was present the discharge current increased at the)
rate of ap A temporar when the d	proximate y decreas iffuse ra the gap.	ely 10 ⁹ A/sec and the in the rate of adiation appeared, and a power of	i the conducti I decay of the I. An energy 2 kW was expe	vity of the co voltage acros of about 6 x l ended in the ga	lumn was about s the gap was 0 ⁻⁶ J was requ p at the momen	observed	0
diffuse ra		SUBM DATE:		ORIG REF:		REF: 002	
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ACC NR: AP7003147 SOURCE CODE: UR/036

SOURCE CODE: UR/0368/66/005/006/0712/0717

AUTHOR: Andreyev, S. I.; Vanyukov, M. P.; Daniel, Ye. V.

ORG: none

TITLE: Surface discharge as a source of intensive light flashes

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 712-717

TOPIC TAGS: surface discharge, spark discharge, light flash, light emission,

emission spectrum

ABSTRACT: Luminous characteristics of the discharge channel over a titanium dioxide ceramic surface have been investigated in argon and xenon atmospheres. It was shown that the luminous emission intensity of the surface spark is 10 times greater than that of a free spark in air. The spectral distribution of the emission was measured. At extremely rigid conditions, the surface discharge is shown to emit as a blackbody with a temperature of 63,000K in argon and 40,000K in xenon.

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UDC: 537, 523, 4

ANDREEV, S.K.

Universal'nye rolikovye nozhnitsy URN-6 Vestn. Mash., 1950, no.11, p. 44-45 MUltipurpose roller shears URN-6.

DEC: TNL.VL

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

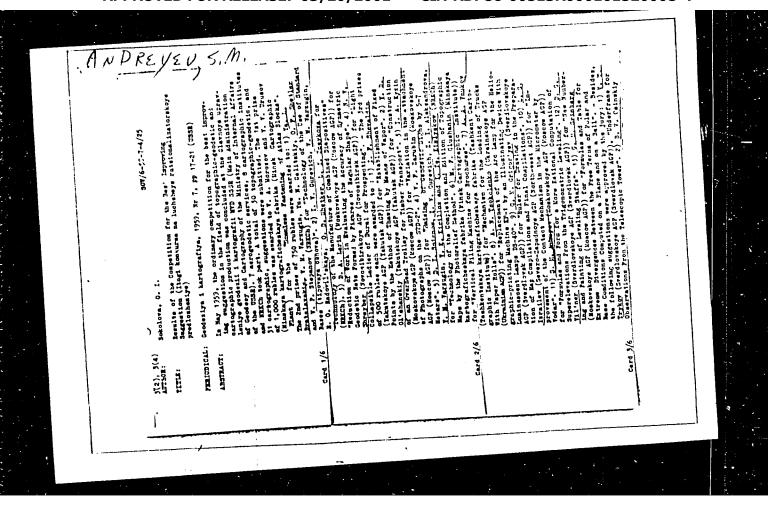
ANDREYEV, S.M.; KHALDIN, V.G.

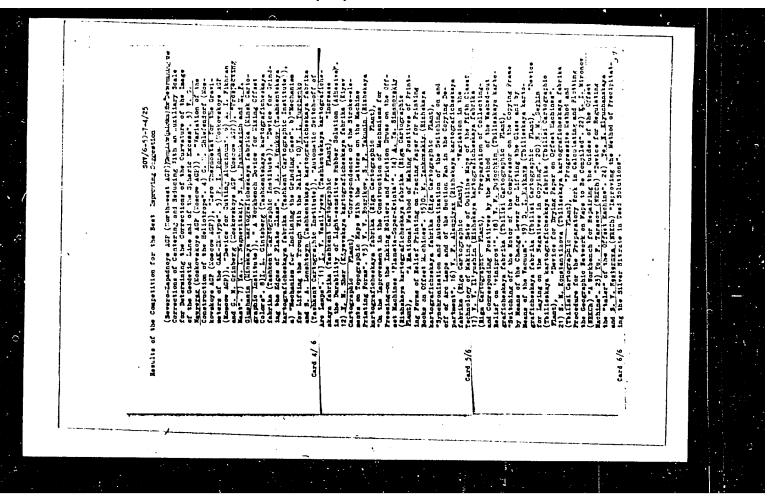
Preparation of solid narrow-banded light filters for colorimetry in the spectral region of 3100 - 3600 Å. Trudy Kom.ansl.khim.7:201-204

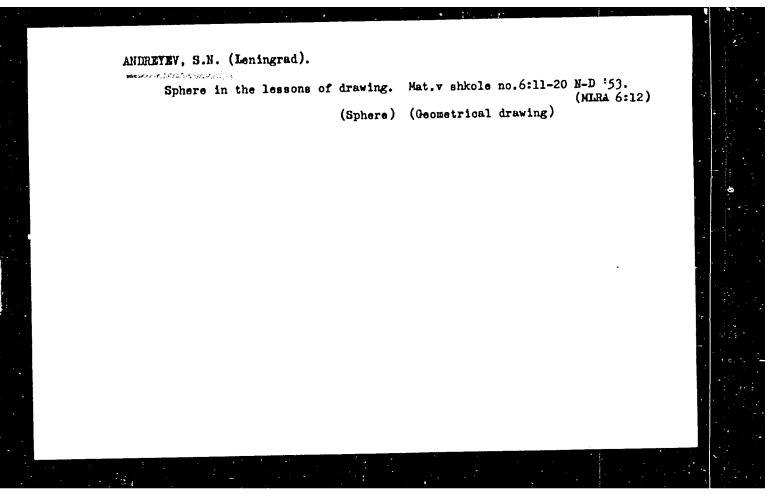
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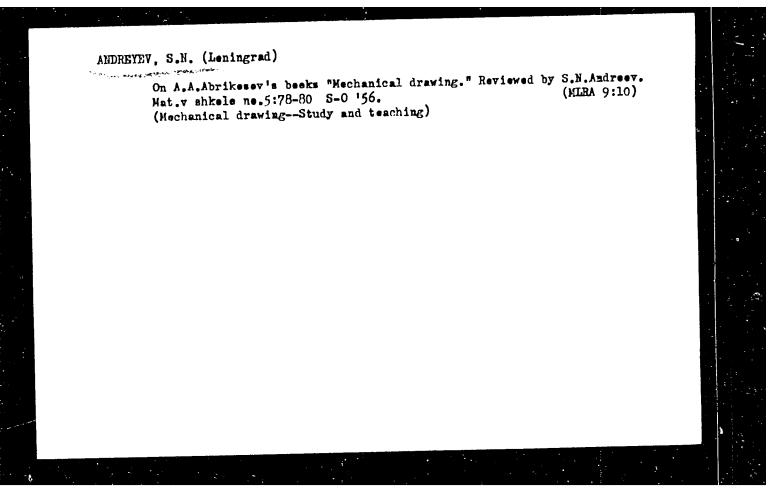
1.Leningradskiy gosudarstvennyy universitet, Khimicheskiy fakul'tet. (Light filters) (Colorimetry)

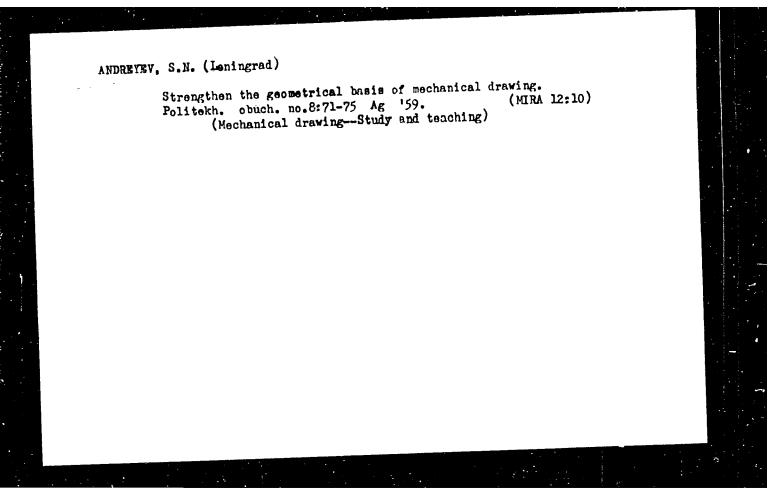
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PNDREYEV, 5 M. 28(1) AUTHOR: 2.7

sev, 142-2-1-20, 22

Vologdin, V.V.

TITLE:

A Conference on Electrical Food Processing Methods (Konferentsiya po elektricherkim metodam obrabotki pishchevykh produktov)

PERIODICAL:

Townstiya vyeshikh nohebnyth pavedeniy - radiotekh-nika, 1950, Vol 2, Kr 1, Fl 100-101 (USBR)

ARSTRACT:

A conference on electrical food processing methods was held in Kiyev from 7 to 1% october 1958. The conference was organized by the Rivevskiy tekhnologicheshiy institut pishchevoy promyshlennosti USSR gicheshiy institut pishchevoy promyshlennosti USSR (Kiyev Institute of Technology of the Food Industry UKrSSR). The conference comprised a wide range of problems and the novelty of the subjects caused great interest of workers from scientific institutions and industrial installations. The 350 delegates came from 60 towns of the USSR; 119 participants were sent to the conference from vuzes and scientific research institutes. At the conference, more than 50 reports were delivered and discussed,

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sov/142-2-1-20/22 A Conference on Electrical Food Processing Methods Sterilizer for the Sterilization of Fruit Conserves on a Conveyer" by N.D. Chernyayev (Moscow); "The Defrosting of Spiced Sprate by High Frequency Currents" by V.N. Podsevalov (Astrakhan); "The High Frequency Boiling of Electrically Smoked Fish" by A.I. and M.I. Kalitina and I.S. Pavlov (Kiyev); "The Technological Peculiarities of Processing Sausage Products by High Frequency Currents" by N. N. Shishkina (Moscow). At the conference, the following reports were heard with great interest and were discussed in detail: "The Application of Infrared Heating for Drying of Confectionery Products" by N.B. Belostotskiy (RIGA); "The Technological Principles of the Not Electrical Fish Smoking Process" by A.I. and M.I. Kalitina and Ye.P.
Naumov (Kiyev); "A New Fish Processing Technology and the Processing of Sardines and Sprats With the Application of Infrared Light and Smoking Liquid" by I.I. Lapshin (Moscow); "The VNIIKOP Experimental Equipment for Ionization Processing of Food Products" Qard 3/5

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by N.D. Chernyayev (Moscow); and "An Investigation of the Possible Application of Radioactive Radiation for Preserving the Albuminous Residue of Integumentary Whale Fat" by S.I. Tsypkin (Leningrad). The creative work conducted in the field of processing food by electrical methods was demonstrated by a large number of the reports delivered at the conference. In the majority of cases, this work was conducted at a high theoretical level by individuals and by teams of scientific and industrial workers. However, a number of reports were of doubtful theoretical and practical value and did not present any new information (for example those dealing with drying in a high frequency current field). Problems of work hygiene, shielding of devices and buildings and the elimination of radio interferences, were not considered at the conference. Especially the elimination of radio interferences may create the idea of an unreal simplicity of introducing some of the processing methods. After the discussion

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and the exchange of opinions on the reports, the conference participants worked out a number of resolutions, directed at the future development of electrical food processing methods. The most important resolution dealt with the coordination of the future work in the field of applying electrical processing technologies, the introduction of the latter, and the creation of typified projects and equipment. The propaganda for applying electrical processing methods in the food industry must be intensified by conducting regularly conferences and meetings on this subject. Further, scientific, technological, periodical and reference literature must be published.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni

V.I. Ul'yanova (Lenina) (Leningrad Institute of Electrical Engineering imeni V.I. Ul'yanov (Lenin))

November 3, 1958 SUBMITTED:

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